

IN THE CLAIMS:

29. (Previously Presented) A method comprising:

a first client device belonging to a first client domain, includes a first processor executing a first operating system;

a second client device belonging to a second client domain, includes a second processor executing a second operating system; and

a shared resource device belonging to a shared resource domain, includes a third processor executing software for managing communications between the first client device and the second client device by:

receiving a request from the first client device of the first client domain to access the second client domain; and

accessing the second client device of the second client domain in response to receiving the request from the first client device of the first client domain;

isolating the first client domain, the second client domain and the shared resource domain from one another such that errors in a given domain do not affect the remaining domains.

30. (Previously Presented) The method of claim 29, wherein receiving the request further comprises receiving a request to access a resource of the second client domain.

31. (Previously Presented) The method of claim 30, wherein the resource is an interface, and wherein receiving the request further comprises receiving a request to

access the interface of the second client domain to communicate with one or more external devices.

32. (Previously Presented) The method of claim 29, wherein receiving the request further comprises receiving the request to access data from a memory associated with the second client domain.

33. (Previously Presented) The method of claim 29, wherein using the shared resource domain to access the second client domain comprises accessing and copying data from the second client domain, transferring the data to the first client domain, and providing an indication to the first client domain in response to transferring the data.

34. (Previously Presented) The method of claim 33, wherein providing the indication comprises generating an interrupt in response to transferring the data.

35. (Previously presented) The method of claim 34, further comprising detecting an error in a first shared resource domain.

36. (Previously Presented) The method of claim 35, further comprising allowing the first client domain to access second client domain through a second shared resource domain in response to detecting the error in the first shared resource domain.

37. (Previously Presented) The method of claim 29, further comprising using a second shared resource domain to manage at least a portion of the access between the first client domain and the second client domain.

38. (Previously Presented) A system comprising:
a first client device belonging to a first client domain, includes a first processor
configured to execute a first operating system;

a second client device belonging to a second client domain, includes a second processor configured to execute a second operating system; and

a shared resource device belonging to a shared resource domain, includes a third processor configured to execute software for managing communications between the first client device and the second client device;

wherein the shared resource device is configured to:

receive a request from the first client device of the first client domain for data that is storable in a resource associated with the second client device belonging to the second client domain;

access the data from the resource associated with the second client device belonging to the second client domain;

transfer the data to the first client device of the first client domain;
and

provide an indication to the first client device of the first client domain in response to transferring the data;

wherein the first client domain, the second client domain and the shared resource domain are isolated from one another such that errors in a given domain do not affect the remaining domains.

39. (Previously Presented). The system of claim 38, wherein the resource associated with the second client device comprises a memory associated with the second client device.

40. (Previously Presented) The system of claim 39, wherein the shared resource device includes a control unit configured to read the data from the memory of the second client device and copies the data into a memory associated with the first domain.

41. (Previously Presented) The system of claim 40, wherein the control unit is adapted to determine if at least one of the first domain and second domain is not responding.

42. (Previously Presented) The system of claim 41, wherein the control unit is adapted to provide an error indication in response to determining that at least one of the first domain and second domain is not responding.

43. (Previously Presented) The system of claim 38, further comprising a second shared resource device belong to a second shared resource domain configured to allow communication between the first and second domain in response to determining the first control unit is not responding.

44. (Cancelled)

45. (Previously Presented) The system of claim 40, wherein the shared resource device includes an interface, and wherein the control unit allows the first client device to access the interface to communicate with one or more external devices.

46. (Previously Presented) The system of claim 45, wherein the interface is adapted to receive Internet Protocol data packets.

47. (Previously Presented) The system of claim 46, wherein the interface is adapted to receive at least one of a transmission control packet protocol and a user datagram protocol.

48. (Previously Presented) An article comprising one or more machine-readable storage media containing instructions that when executed enable a processor to:
- provide a request from a first client device belonging to a first client domain to a shared resource device belonging to a shared resource domain to access one or more resources belonging to a second client domain;
 - access the one or more resources in the second client domain in response to receiving the request; and
 - provide an indication to the first client domain in response to accessing the one or more resources in the second client domain;
 - isolate the first client domain, the second client domain and the shared resource domain from one another such that errors in a given domain do not affect the remaining domains.
49. (Previously Presented) The article of claim 48, wherein the instructions when executed enable the processor to request data that is stored in a memory associated with a second client device belonging to the second client domain.
50. (Previously Presented) The article of claim 49, wherein the instructions when executed enable the processor to copy the requested data from the memory of the second client device transfer the copied data from the memory of the second client device to the first client domain.
51. (Cancelled)
52. (Previously presented) The article of claim 48, wherein the instructions when executed enable the processor to provide the request using the Internet Protocol.

53. (Previously presented) The article of claim 48, wherein the instructions when executed enable the processor to detect an error in the shared resource domain.

54. (Previously presented) The article of claim 53, wherein the instructions when executed enable the processor to switch to a second shared resource domain in response to detecting the error in the shared resource domain.

Claims 55-57 (Cancelled)